

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
OM protein - protein search, using sw model
Run on: November 23, 2004, 18:16:29 ; Search time 21 Seconds
(without alignments)
988.454 Million cell updates/sec
Title: US-09-800-321A-4
Perfect score: 1607
Sequence: 1 MNWVDSIIQEFILLGFSR.....NKEVGEFKLVARVFLIKK 313
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 478139 seqs, 66318000 residues
Total number of hits satisfying chosen parameters: 478139
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 939 | 58.4 | 310 | 4 | US-09-546-986A-2 |
| 2 | 939 | 58.4 | 310 | 4 | US-09-524-730-2 |
| 3 | 883 | 54.9 | 334 | 4 | US-09-546-986A-8 |
| 4 | 883 | 54.9 | 334 | 4 | US-09-524-730-8 |
| 5 | 879 | 54.7 | 340 | 4 | US-09-546-986A-6 |
| 6 | 879 | 54.7 | 340 | 4 | US-09-524-730-6 |
| 7 | 770 | 47.9 | 331 | 4 | US-09-546-986A-4 |
| 8 | 770 | 47.9 | 331 | 4 | US-09-524-730-4 |
| 9 | 691 | 43.0 | 309 | 3 | US-08-988-876-5 |
| 10 | 655 | 40.8 | 314 | 3 | US-08-988-876-7 |
| 11 | 654.5 | 40.7 | 321 | 3 | US-08-748-506-18 |
| 12 | 651.5 | 40.5 | 321 | 3 | US-08-748-506-10 |
| 13 | 647.5 | 40.3 | 321 | 3 | US-08-748-506-20 |
| 14 | 646.5 | 40.2 | 333 | 4 | US-09-465-901-48 |
| 15 | 645 | 40.1 | 333 | 3 | US-08-988-876-6 |
| 16 | 644.5 | 40.1 | 321 | 3 | US-08-748-506-12 |
| 17 | 640 | 39.8 | 316 | 2 | US-08-827-291A-2 |
| 18 | 638.5 | 39.7 | 321 | 3 | US-08-748-506-13 |
| 19 | 630.5 | 39.2 | 321 | 3 | US-08-748-506-19 |
| 20 | 628.5 | 39.1 | 321 | 3 | US-08-748-506-11 |
| 21 | 622.5 | 38.7 | 296 | 2 | US-08-467-948A-2 |
| 22 | 622.5 | 38.7 | 296 | 3 | US-08-467-947A-2 |
| 23 | 596 | 37.1 | 284 | 1 | US-08-118-270-61 |
| 24 | 596 | 37.1 | 284 | 5 | PCT-US93-08528-61 |
| 25 | 596 | 37.1 | 327 | 3 | US-08-748-506-24 |
| 26 | 589 | 36.7 | 327 | 3 | US-08-748-506-22 |
| 27 | 589 | 36.7 | 327 | 3 | US-08-748-506-23 |

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|----|-------|------|-----|---|-------------------|-------------------|
| 28 | 579 | 36.0 | 327 | 3 | US-08-748-506-14 | Sequence 14, Appl |
| 29 | 572.5 | 35.6 | 284 | 1 | US-08-118-270-67 | Sequence 67, Appl |
| 30 | 572.5 | 35.6 | 284 | 5 | PCT-US93-08528-67 | Sequence 67, Appl |
| 31 | 548.5 | 34.1 | 293 | 1 | US-08-118-270-60 | Sequence 60, Appl |
| 32 | 548.5 | 34.1 | 293 | 5 | PCT-US93-08528-60 | Sequence 60, Appl |
| 33 | 548 | 34.1 | 247 | 1 | US-08-465-980-3 | Sequence 3, Appl |
| 34 | 548 | 34.1 | 247 | 2 | US-09-053-303-3 | Sequence 3, Appl |
| 35 | 548 | 34.1 | 247 | 3 | US-09-339-115-3 | Sequence 3, Appl |
| 36 | 548 | 34.1 | 247 | 5 | PCT-US95-07093-3 | Sequence 3, Appl |
| 37 | 546 | 34.0 | 277 | 1 | US-08-118-270-62 | Sequence 62, Appl |
| 38 | 546 | 34.0 | 277 | 5 | PCT-US93-08528-62 | Sequence 62, Appl |
| 39 | 529.5 | 32.9 | 286 | 1 | US-08-118-270-65 | Sequence 65, Appl |
| 40 | 529.5 | 32.9 | 286 | 5 | PCT-US93-08528-65 | Sequence 65, Appl |
| 41 | 526 | 32.7 | 273 | 1 | US-08-118-270-63 | Sequence 63, Appl |
| 42 | 526 | 32.7 | 273 | 5 | PCT-US93-08528-63 | Sequence 63, Appl |
| 43 | 525 | 32.7 | 275 | 1 | US-08-118-270-66 | Sequence 66, Appl |
| 44 | 525 | 32.7 | 275 | 5 | PCT-US93-08528-66 | Sequence 66, Appl |
| 45 | 522 | 32.5 | 277 | 1 | US-08-118-270-68 | Sequence 68, Appl |

ALIGNMENTS

RESULT 1
US-09-546-986A-2
; Sequence 2, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-546-986A-2

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| Query Match | 58.4% | Score 939; | DB 4; | Length 310; |
| Best Local Similarity | 58.7% | Pred. No. 4.8e-75; | | |
| Matches | 175; | Conservative | 73; | Indels 0; Gaps 0; |
| Qy | 12 | FILLGFSRPMLEFLLVVELISYTVTFQNLTIILVSRDLTKLHTPMYFPLNLSLDD | 71 | |
| Db | 9 | FILLGFSRPMLEFLLVVELISYTVTFQNLTIILVSRDLTKLHTPMYFPLNLSLDD | 68 | |
| Qy | 72 | CYTTCTVPMQMLNLCIRKVISYGCVAQFLFALGATEYLLAVMSFDFVVAICPLH | 131 | |
| Db | 69 | CYTTCTVPMQMLNLCIRKVISYGCVAQFLFALGATEYLLAVMSFDFVVAICPLH | 128 | |
| Qy | 132 | YSVIMHORLCQLAAASWVTGFSNVWLSLTLLQLPLCDPVIDHFLCEVPALLKLSCEV | 191 | |
| Db | 129 | YAVLMHRLCQQLVAVLAWLSGFGNSFQVQVLTQVLPFCGQVNLNFFCEVPVNIKLSAD | 189 | |
| Qy | 192 | TTANEAEFLVSELPHLIPULTLILISYAFIVRAVLRIQSAEGRKAFGTGCSHLIVVSLF | 251 | |
| Db | 189 | TAMMDTILAVLVAFFVLVPLALILLSGVFARAVLRIQSSKGRKAFGTGCSHLIVVSLF | 248 | |
| Qy | 252 | YSTAVSVILOPPSPSKDQGMVSLFYIGIAPMNLPIYTLRNKEVKEGPKRLVARVF | 309 | |
| Db | 249 | YLPATMYLQPPSSYSQEQKFISLYSIITPTINPFTYTLRNKMKGALLRLIARIW | 306 | |

RESULT 2
US-09-524-730-2

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; Sequence 2, Application US/09524730
; Patent No. 638733
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-0047100S
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-524-730-2

Query Match      58.4%; Score 939; DB 4; Length 310;
Best Local Similarity 58.7%; Pred. No. 4.8e-75;
Matches 175; Conservative 50; Mismatches 73; Indels 0; Gaps 0;

QY 12 FILLGSDRPWLEFLLVFLISYTVTFGNLTIIIVSRDLTKLHTPMYFFLTNLSL 71
DB 9 FILLGSDRPWLEFLLVFLISYTVTFGNLTIIIVSRDLTKLHTPMYFFLTNLSL 68
QY 72 CYTTCTVPQMLVNLCSIRKVISYRCVQAQLFIFLAGATEYILLAVMSDFWV 131
DB 69 CYTTCTVPQMLVNLCSIRKVISYRCVQAQLFIFLAGATEYILLAVMSDFWV 128
QY 132 YSVIMHQRCLQCLAAASWVTGFSNSVWLSLTTLQPLCDPYPVIDHFLCEVP 191
DB 129 YAVLMHQRCLQCLAAASWVTGFSNSVWLSLTTLQPLCDPYPVIDHFLCEVP 188
QY 192 TTANAEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGTCGSH 251
DB 189 TAMNTILAVIAVFFLVPLAILLISYGFIAVLRIQSAEGRQKAFGTCGSH 248
QY 252 YSTAVSVYLQPPSSKDGKQWVSLFYGIIAPMLNPLIYTLNKEVKEGFKRL 309
DB 249 YLPAIYMYLQPPSSYSEQKQFVSLFYTVVTRMLNPLIYTLNKEVKEGFKRL 306

RESULT 3
US-09-546-986A-8
; Sequence 8, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-0047200S
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 8
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-546-986A-8

Query Match      54.9%; Score 883; DB 4; Length 334;
Best Local Similarity 56.8%; Pred. No. 4.5e-70;
Matches 172; Conservative 53; Mismatches 78; Indels 0; Gaps 0;

QY 5 NDSIIQEFILLGSDRPWLEFLLVFLISYTVTFGNLTIIIVSRDLTKLHTPMYFFLT 64
DB 25 NESNLGFIILLGSDYQAQLQKLVFLILLYLTILGNTTIIIVSRLEPKLHMPMYFFLS 84
QY 65 NLSLLDLCTTCTVPQMLVNLCSIRKVISYRCVQAQLFIFLAGATEYILLAVMSDFWV 124
DB 85 HLSFLYRCFTSSVIPQLLVNLWEPKMTIAYGGCLVHLNYSHALGSTECVLPALMSCDRYV 144
QY 125 AICRPLHYSVIMHQRCLQCLAAASWVTGFSNSVWLSLTTLQPLCDPYPVIDHFLCEVP 184
DB 145 AVCRLPHYTVLMHILCMALASWLSGIATTLVQSTLTLPFCGHRQVDHIFCEVPVL 204
QY 185 LKLSCVETTANAEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGTCGSH 244
DB 205 IKLACVGTTFNEAEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGTCF 264
QY 245 LIVVSLFYSTAVSVYLQPPSSKDGKQWVSLFYGIIAPMLNPLIYTLNKEVKEGFKRL 304
DB 265 LTAVTIFYGTIIIFMYLQPAKRSRQDGKQFVSLFYTVVTRMLNPLIYTLNKEVKEGFKRL 324
QY 305 VAR 307
DB 325 LAK 327

US-09-524-730-8
; Sequence 8, Application US/09524730
; Patent No. 6638733
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-0047100S
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 8
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-524-730-8

Query Match      54.9%; Score 883; DB 4; Length 334;
Best Local Similarity 56.8%; Pred. No. 4.5e-70;
Matches 172; Conservative 53; Mismatches 78; Indels 0; Gaps 0;

QY 5 NDSIIQEFILLGSDRPWLEFLLVFLISYTVTFGNLTIIIVSRDLTKLHTPMYFFLT 64
DB 25 NESNLGFIILLGSDYQAQLQKLVFLILLYLTILGNTTIIIVSRLEPKLHMPMYFFLS 84
QY 65 NLSLLDLCTTCTVPQMLVNLCSIRKVISYRCVQAQLFIFLAGATEYILLAVMSDFWV 124
DB 85 HLSFLYRCFTSSVIPQLLVNLWEPKMTIAYGGCLVHLNYSHALGSTECVLPALMSCDRYV 144
QY 125 AICRPLHYSVIMHQRCLQCLAAASWVTGFSNSVWLSLTTLQPLCDPYPVIDHFLCEVP 184
DB 145 AVCRLPHYTVLMHILCMALASWLSGIATTLVQSTLTLPFCGHRQVDHIFCEVPVL 204
QY 185 LKLSCVETTANAEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGTCGSH 244
DB 205 IKLACVGTTFNEAEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGTCF 264
QY 245 LIVVSLFYSTAVSVYLQPPSSKDGKQWVSLFYGIIAPMLNPLIYTLNKEVKEGFKRL 304
DB 265 LTAVTIFYGTIIIFMYLQPAKRSRQDGKQFVSLFYTVVTRMLNPLIYTLNKEVKEGFKRL 324
QY 305 VAR 307
DB 325 LAK 327
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RESULT 5
US-09-546-986A-6
; Sequence 6, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-546-986A-6

Query Match      54.7%; Score 879; DB 4; Length 340;
Best Local Similarity 56.7%; Pred. No. 1e-69;
Matches 173; Conservative 46; Mismatches 86; Indels 0; Gaps 0;

QY 1 MNWNDSIIQEFILLGFSDRPWLFFLLVVLVFLISYTVTFGNLTIIILVSRDLTKLHTPMY 60
DB 22 MEIANVSSPEVFLVGLFSARPSLETFLVFLVLSFYMSILGNGIIILVSHDVLHTPMY 81
QY 61 FFLTNLSLLDLCTTCTVPQMLNLCIRKIVSYRGCAQLFIFLAGATEYLLAVMSF 120
DB 82 FFLANLSFLDMSTTSIVPOLLANLWGPQKTSYGGCVQVQFYIASHWLGATECVLLATMSY 141
QY 121 DWFVAICRPLHYSVIMHORCLQALAAASWTGFSNWSLSTLTQLPLCDPYVIDHFLCE 180
DB 142 DRYAAICRPLHYTVIMHPQLCLGLALASWLGGLTTSWVGSTLTMLPLCGNCCIDHFFCE 201
QY 181 VPALLKLSCVETTANAELEFLVSELFHLIPLTLILISYAFIVRAVLRIQSAEGRKAFGT 240
DB 202 MPLIMQLACVDTSLNEMEMYLASFVFLVPLGLILVSYGHIAVAVLKIRSAEGRKAFNT 261
QY 241 CGSHLIVSLFYSTAVSVYIQLPPSPSKQOGKMWLSFYGIAPMLNPLIYTLRNKEVKEG 300
DB 262 CSSHVAVVSLFYGSIIFMYLQPAKSTSHQCKFIALFYTVTPALNPLIYTLRNTEVKA 321
QY 301 FKRLV 305
DB 322 LRHMV 326

RESULT 7
US-09-546-986A-4
; Sequence 4, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-546-986A-4

Query Match      47.9%; Score 770; DB 4; Length 331;
Best Local Similarity 50.5%; Pred. No. 4e-60;
Matches 159; Conservative 41; Mismatches 87; Indels 28; Gaps 3;

QY 5 NDSIIQEFILLGFSDRPWLFFLLVVLVFLISYTVTFGNLTIIILVSRDLTKLHTPMYFLT 64
DB 5 NASYLQAFILVGSDDRPGLKILFAVILIFCILTGVGNTAILLLVMDVRLHTPMYFLG 64
QY 65 NLSLLDLCTTCTVPQMLNLCIRKIVSYRGCAQLFIFLAGATEYLLAVMSFDFWV 124
DB 65 NLSFLDLCTFASTAPQLLWNLGGPEKTTIYHGCVAQYIYMWLGSTECVILVWMSHRYV 124
QY 125 AICRPLHYSVIMHORCLQALAAASWTGFSNWSLSTLTQLPLCDPYVIDHFLCEVPAL 184
DB 125 AVCSLHYMAVMPHCLQLVTVWCCGLNSFTMCPQWQLSCGRRRVDFHCEPAL 184
QY 185 LKLSCVETTANAELEFLVSELFHLIPLTLILISYAFIVRAVLRIQSAEGRKAFGT 230
DB 185 IAMSCEET-----MLVEAIHLCPGGSPPGAALPHPL-----YGVIAAAVLRMKS 230
QY 231 AEGRQKAFGCGSHLIVSLFYSTAVSVYIQLPPSPSKQOGKMWLSFYGIAPMLNPLIY 290
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US-09-546-986A-6
; Sequence 6, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-546-986A-6

Query Match      54.7%; Score 879; DB 4; Length 340;
Best Local Similarity 56.7%; Pred. No. 1e-69;
Matches 173; Conservative 46; Mismatches 86; Indels 0; Gaps 0;

QY 1 MNWNDSIIQEFILLGFSDRPWLFFLLVVLVFLISYTVTFGNLTIIILVSRDLTKLHTPMY 60
DB 22 MEIANVSSPEVFLVGLFSARPSLETFLVFLVLSFYMSILGNGIIILVSHDVLHTPMY 81
QY 61 FFLTNLSLLDLCTTCTVPQMLNLCIRKIVSYRGCAQLFIFLAGATEYLLAVMSF 120
DB 82 FFLANLSFLDMSTTSIVPOLLANLWGPQKTSYGGCVQVQFYIASHWLGATECVLLATMSY 141
QY 121 DWFVAICRPLHYSVIMHORCLQALAAASWTGFSNWSLSTLTQLPLCDPYVIDHFLCE 180
DB 142 DRYAAICRPLHYTVIMHPQLCLGLALASWLGGLTTSWVGSTLTMLPLCGNCCIDHFFCE 201
QY 181 VPALLKLSCVETTANAELEFLVSELFHLIPLTLILISYAFIVRAVLRIQSAEGRKAFGT 240
DB 202 MPLIMQLACVDTSLNEMEMYLASFVFLVPLGLILVSYGHIAVAVLKIRSAEGRKAFNT 261
QY 241 CGSHLIVSLFYSTAVSVYIQLPPSPSKQOGKMWLSFYGIAPMLNPLIYTLRNKEVKEG 300
DB 262 CSSHVAVVSLFYGSIIFMYLQPAKSTSHQCKFIALFYTVTPALNPLIYTLRNTEVKA 321
QY 301 FKRLV 305
DB 322 LRHMV 326

RESULT 6
US-09-524-730-6
; Sequence 6, Application US/09524730
; Patent No. 6638733
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004710US
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-524-730-6
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Db 231 AAGRKKAPHTCSSHLTVVSLFYGTIIYVYKPKANSYSDQGRFLTLFYTVIVPSINPLIY 290
QY 291 TLRNKEVKEGFKRLV 305
Db 291 TLRNKDVKGTMKKLL 305

RESULT 8

US-09-524-730-4
; Sequence 4, Application US/09524730
; Patent No. 6638723
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: NO. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004710US
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-524-730-4

Query Match 47.9%; Score 770; DB 4; Length 331;
Best Local Similarity 50.5%; Pred. No. 4e-60;
Matches 159; Conservative 41; Mismatches 87; Indels 28; Gaps 3;
QY 5 NDSIIQEBTLLGFSRDRPWLFPFLVFLISYVTFIGNTLIIIVSRDLTKLHTPMYFPLT 64
Db 5 NASYLQAFILVGSRRPGLKTLFALIFCILTLVGNATIIILLVMDVRLHTPMYFPLG 64
QY 65 NLSLIDLCTTCTVQPMVLNLCIRKVISYRGCAQLFFLALGATEYLLAVMSFDWV 124
Db 65 NLSFDLCLFTASIAQLLNWLGPEKTIYHGCVAQLIYMMLGSTECVLLVMSHDRV 124
QY 125 AICRPLHYSVIMHQRCLQLAAASVWTGFSNVMSTLTQLPLCDPYVIDHFLCEVPAL 184
Db 125 AVCRSIHYMAVRPHLCLQLVTVAMCGFLNFMCPQTMQLSRCRRRVDFHFLCEMPAL 184
QY 185 LKLSCEVTANEAEFLVSELPFLIP-----LTLIIISYAFIVRAVRIOS 230
Db 185 IAMSCEET-----MLVEAIHLCPGGSPGGAALPHPL-----YGVIAAAVLRMKS 230
QY 231 AEGRKAFGTGSHLIVVSLFYSTAVSVYVLOPPSPSSKQDGKMWLSFYGIIAPMLNPLIY 290
Db 231 AAGRKKAPHTCSSHLTVVSLFYGTIIYVYKPKANSYSDQGRFLTLFYTVIVPSINPLIY 290
QY 291 TLRNKEVKEGFKRLV 305
Db 291 TLRNKDVKGTMKKLL 305

RESULT 9

US-08-988-876-5
; Sequence 5, Application US/08988876
; Patent No. 6063596
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Bandman, Olga
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: G PROTEIN COUPLED RECEPTORS ASSOCIATED
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive

; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/988,876
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0441 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1314667
; US-08-988-876-5
Query Match 43.0%; Score 691; DB 3; Length 309;
Best Local Similarity 45.0%; Pred. No. 3.4e-53;
Matches 134; Conservative 55; Mismatches 109; Indels 0; Gaps 0;
QY 1 MNWVDSIIQEBTLLGFSRDRPWLFPFLVFLISYVTFIGNTLIIIVSRDLTKLHTPMY 60
Db 1 MELENDTRIPEPFLLLGFSRDRPWLFPFLVFLISYVTFIGNTLIIIVSRDLTKLHTPMY 60
QY 61 RFLTNLSLIDLCTTCTVQPMVLNLCIRKVISYRGCAQLFFLALGATEYLLAVMSF 120
Db 61 FFLANLSFDVLCFTCTTIPKMLVNIQTORKVIYVESCIIQMTFFELFAGIDNFLTVMAY 120
QY 121 DMFVAICRPLHYSVIMHQRCLQLAAASVWTGFSNVMSTLTQLPLCDPYVIDHFLCE 180
Db 121 DRYMAICVPLHYVMINPQLCSLLLVMSALHSLQLTMLVRLSFCCTHFQIPHFFCE 180
QY 181 VPALKLSCEVTANEAEFLVSELPFLIP-----LTLIIISYAFIVRAVRIOSASGRQKAFGT 240
Db 181 LNQMILQACSDTFLNNMMLYFAAILLVAPILVGVLYSYFKIVSSIRGIISSAHSKYKAFST 240
QY 241 CGSHLIVVSLFYSTAVSVYVLOPPSPSSKQDGKMWLSFYGIIAPMLNPLIYTLRNKEVK 298
Db 241 CASHLSVVSFLYCTSGVYLSAAPQSTHTSSVASVMYTVTPMLNPLIYSLRNKDIIK 298
RESULT 10
US-08-988-876-7
; Sequence 7, Application US/08988876
; Patent No. 6063596
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Bandman, Olga
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: G PROTEIN COUPLED RECEPTORS ASSOCIATED
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive

```
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/988,876
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0441 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 32086
; US-08-988-876-7

Query Match 40.8%; Score 655; DB 3; Length 314;
Best Local Similarity 43.5%; Pred. No. 5.1e-50;
Matches 131; Conservative 61; Mismatches 109; Indels 0; Gaps 0;

Qy 5 NDSIIQEFILLGFSRDRPWLFPFLLVFLISYTVTFGNLTILVSRDLTKLHTPMYFFLT 64
Db 5 NQTSISDFLLGLPIQEQQNLCVALFLMYLTLLGNLLIIVLRDLSHLHTPMYFLS 64
Qy 65 NLSLLDLCYTTCTVPMVNLCSIRKVISYRGCAQLFIFALGATEYLLAVMSDFV 124
Db 65 NLSFSDLCFSSVTIPKLLQNQNDPSIPYADCLTQMYFFLLFGDLESFLLVAMAYDRV 124
Qy 125 AICRPLHYVIMHORLCLQAAAASWVTGFSNVWLSLTLLQLPLCDPVVIDHFLCEVPAL 184
Db 125 AICFPLHYAIMSPMLCLALVALSWVLTTHAMLIHTLLMARLCAQDNVIPHFFCDMSAL 184
Qy 185 LKLSCVETTANAEFLVSEFLHPIPLTILISYAFIVRAVLRIOQSAEGROKAFGTGSH 244
Db 185 LKLAFTDRNEWIFIMGGLIVIPPELLILGSAVIVSSILKVPSSKGICKAFTGSH 244
Qy 245 LIVVSLPYSTAVSYLOPPSPSSKQCKMVSFLFGIIPMLNPLIYTLRNKEVKEGFKRL 304
Db 245 LSVVSLFYGTGIVGLYLCSSANSTLKDTVMAMMYTVVTPMLNPFYISLRNDRMGALSRY 304
Qy 305 V 305
Db 305 I 305

RESULT 11
US-08-748-506-18
; Sequence 18, Application US/08748506
; Patent No. 6159707
; GENERAL INFORMATION:
; APPLICANT: Ronnett et al.
; TITLE OF INVENTION: NOVEL SPERM RECEPTORS
```

```
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leydig, Voit & Mayer, Ltd.
; STREET: Two Prudential Plaza, Suite 4900
; CITY: Chicago
; STATE: IL
; COUNTRY: US
; ZIP: 60601-6780
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/748,506
; FILING DATE: 08-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,751
; FILING DATE: 09-NOV-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 74940
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-616-5600
; TELEFAX: 312-616-5700
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 321 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-748-506-18

Query Match 40.7%; Score 654.5; DB 3; Length 321;
Best Local Similarity 44.7%; Pred. No. 5.8e-50;
Matches 135; Conservative 48; Mismatches 118; Indels 1; Gaps 1;

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Db 8 WQENSLTVKHFAKFEVPEGECFLFNLLPLVSLTGNILVLAICTSPSLHTPMYF 67
Qy 62 FLNLSLLDLCYTTCTVPMVNLCSIRKVISYRGCAQLFIFALGATEYLLAVMSFD 121
Db 68 FLANLSLEIGYTCVTPKMLQSLVSEARISREGCATQMFFAFFGITECCLLAAMAFD 127
Qy 122 WFVAICRPLHYVIMHORLCLQAAAASWVTGFSNVWLSLTLLQLPLCDPVVIDHFLCEV 181
Db 128 RMAICSPHYATMSREVCALHAIYVSGMGCIVSLQGTNFIPLNFGCEIDHFFCDL 187
Qy 182 PALKLSCVETTANAEFLVSEFLHPIPLTILISYAFIVRAVLRIOQSAEGROKAFGTG 241
Db 188 PPLALACGTSQNEAIFVAVVICISPELLIYSYVKILIAVLLMPSPEGRKALSTC 247
Qy 242 GSHLVVSLPYSTAVSYLOPPSPSSKQCKMVSFLFGIIPMLNPLIYTLRNKEVKEGF 301
Db 248 SSHLVVTLFYGSACITYLPRKSHSGMDKFLALFYTVVTSMLNPLIYSLRNKEVKAAL 307
Qy 302 KR 303
Db 308 RR 309

RESULT 12
US-08-748-506-10
; Sequence 10, Application US/08748506
; Patent No. 6159707
; GENERAL INFORMATION:
; APPLICANT: Ronnett et al.
; TITLE OF INVENTION: NOVEL SPERM RECEPTORS
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leydig, Voit & Mayer, Ltd.
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RESULT 14
US-09-465-901-48
; Sequence 48, Application US/09465901
; Patent No. 6492143
; GENERAL INFORMATION:
; APPLICANT: Reed, Randall
; APPLICANT: Yau, King-Wai
; APPLICANT: Krautwurst, Dietmar
; TITLE OF INVENTION: Olfactory Receptor Expression Libraries
; TITLE OF INVENTION: ad Methods of Making and Using Them
; FILE REFERENCE: 001107, 00105
; CURRENT APPLICATION NUMBER: US/09/465, 901
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/112,605
; PRIOR FILING DATE: 1998-12-17

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; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: PCR primer
US-09-465-901-48

Query Match          40.2%; Score 646.5; DB 4; Length 313;
Best Local Similarity 41.1%; Pred. No. 2.9e-49;
Matches 125; Conservative 69; Mismatches 109; Indels 1; Gaps 1;

Qy 5 NDSIIQFILLGFSDRPWLFPPLLVVHLISYTVTFIGNLTIIIVSRDLTKLHTPMYFPLT 64
Db 3 NSTVTVEFILLGLSDACELQVLFGLFLLTVFLLILGNFLFIITLVDRRLYTPMYFLR 62

Qy 65 NLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGVQAQLFIFLALGATEVLLLVMSFDMFV 124
Db 63 NFAMLEIWFSTVIFPKMLTNIITGHKTLISLGCFLQAFYFLLGTTFEFLLVMSFDRYV 122

Qy 125 AICRPLHYSVIMHORLCLQAAAAAASWVTGFSNSVWLSTLTLLQLPCDPVIDHFLCEVPAL 184
Db 123 AICNPLAYATIMSKRVCVQLVFCMSWGLLLIIVPSSIVFQQFCGPNINHFCDNFPL 182

Qy 185 LKLSCVETTANAEFLVSELFLHPLILTLISYAFIVRAVLRIOQSAEGKQAFGTGCSH 244
Db 183 MELICADTSVFEFLGFIIVANFSLGLTAVTATCYGHILYTLITPSAKERRKAFSTCSSH 242

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Db 243 LIIVSLFYGCIPIVYRSRGKNGQEDHNKVALLNTVVTPLNFIYTLRNKQVKQVRE 302

Qy 304 LVAR 307
Db 303 HVSK 306

RESULT 15
US-09-888-876-6
; Sequence 6, Application US/08988876
; Patent No. 6063596
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Bandman, Olga
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: G PROTEIN COUPLED RECEPTORS ASSOCIATED
; TITLE OF INVENTION: WITH IMMUNE RESPONSE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/988,876
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749

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; REFERENCE/DOCKET NUMBER: PF-0441 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 333 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 205814
; US-08-988-876-6

Query Match          40.1%; Score 645; DB 3; Length 333;
Best Local Similarity 40.9%; Pred. No. 4.2e-49;
Matches 124; Conservative 62; Mismatches 117; Indels 0; Gaps 0;

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Db 1 MDSSNRTRVSEFLLLGFEVKNKDLQPLIYGLFSLMYLTVIGNISIIIVAIISDPCLHTPMY 60

Qy 61 FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGVQAQLFIFLALGATEVLLLVMSF 120
Db 61 FFLSNLSFVDICFISTTVPKMLVNIQTQNNVITYAGCITQIYFFLLFVLDNFLTITMAY 120

Qy 121 DMFVAICRPLHYSVIMHORLCLQAAAAAASWVTGFSNSVWLSTLTLLQLPCDPVIDHFLCE 180
Db 121 DRYVAICHPMHYTVIMYKLCGLFVLVSVIUVLHAFQSLMLLALPFTHLEIPHFCE 180

Qy 181 VPALLKLSCVETTANAEAEFLVSELFLHPLILTLISYAFIVRAVLRIOQSAEGKQAFGT 240
Db 181 PNQVIQLTCSDAFLNDLVIVFTLVLLATVPLAGIFYSYFKIVSSICAISVHGVKXKAFST 240

Qy 241 CGSHLIIVSVLSFYSTAVSVYLOPPSPSSKDDQKMWVSLFYGIIAPMLNPLIYTLRNKEVKEG 300
Db 241 CASHLSVSVLSFYCTGLGVLSAANNSSQASATASVMYTVVTPMVPNFYISLRNKDKVSV 300

Qy 301 FKR 303
Db 301 LKK 303

Search completed: November 23, 2004, 18:23:59
Job time : 22 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 23, 2004, 18:21:10 ; Search time 141 Seconds

(without alignments)
786.113 Million cell updates/sec

Title: US-09-800-321A-4

Perfect score: 1607

Sequence: 1 MNWVNDIIIEFILLGFSDR.....NKEVKEGFKLVARVFLIKK 313

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1570615 seqs, 354127592 residues

Total number of hits satisfying chosen parameters: 1570615

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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| 2: | /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.* |
| 3: | /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.* |
| 4: | /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.* |
| 5: | /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.* |
| 6: | /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.* |
| 7: | /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.* |
| 8: | /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.* |
| 9: | /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.* |
| 10: | /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.* |
| 11: | /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.* |
| 12: | /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.* |
| 13: | /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.* |
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| 17: | /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.* |
| 18: | /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.* |
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| 20: | /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.* |

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | ID | Description |
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| 1 | 1607 | 100.0 | 313 | 10 | US-09-800-321A-4 |
| 2 | 1593 | 99.1 | 313 | 9 | US-09-755-017-2 |
| 3 | 1593 | 99.1 | 313 | 10 | US-09-800-321A-2 |
| 4 | 1593 | 99.1 | 313 | 10 | US-09-800-321A-34 |
| 5 | 1593 | 99.1 | 313 | 10 | US-09-795-271-74 |
| 6 | 1593 | 99.1 | 313 | 14 | US-10-005-041A-51 |
| 7 | 1593 | 99.1 | 313 | 15 | US-10-343-650A-302 |
| 8 | 1586 | 98.7 | 313 | 10 | US-09-800-321A-6 |
| 9 | 1299 | 80.8 | 357 | 10 | US-09-800-321A-35 |
| 10 | 1299 | 80.8 | 357 | 10 | US-09-795-271-75 |
| 11 | 1299 | 80.8 | 357 | 10 | US-09-907-218-46 |
| 12 | 1299 | 80.8 | 357 | 10 | US-09-912-976-57 |
| 13 | 1299 | 80.8 | 357 | 10 | US-09-912-976-63 |
| | | | | | Sequence 4, Appli |
| | | | | | Sequence 2, Appli |
| | | | | | Sequence 34, Appl |
| | | | | | Sequence 74, Appl |
| | | | | | Sequence 51, Appl |
| | | | | | Sequence 302, App |
| | | | | | Sequence 6, Appli |
| | | | | | Sequence 35, Appl |
| | | | | | Sequence 75, Appl |
| | | | | | Sequence 46, Appl |
| | | | | | Sequence 57, Appl |
| | | | | | Sequence 63, Appl |

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| 14 | 1299 | 80.8 | 357 | 10 | US-09-965-422-50 | Sequence 50, Appl |
| 15 | 1299 | 80.8 | 357 | 14 | US-10-005-041A-48 | Sequence 48, Appl |
| 16 | 1299 | 80.8 | 357 | 14 | US-10-005-041A-109 | Sequence 109, App |
| 17 | 1295 | 80.6 | 310 | 10 | US-09-800-321A-36 | Sequence 36, Appl |
| 18 | 1295 | 80.6 | 310 | 10 | US-09-795-271-77 | Sequence 77, Appl |
| 19 | 1295 | 80.6 | 310 | 10 | US-09-907-218-49 | Sequence 49, Appl |
| 20 | 1295 | 80.6 | 310 | 14 | US-10-300-846-34 | Sequence 34, Appl |
| 21 | 1295 | 80.6 | 310 | 14 | US-10-005-041A-49 | Sequence 49, Appl |
| 22 | 1295 | 80.6 | 313 | 14 | US-10-300-846-12 | Sequence 12, Appl |
| 23 | 1295 | 80.6 | 357 | 10 | US-09-800-321A-37 | Sequence 37, Appl |
| 24 | 1295 | 80.6 | 357 | 10 | US-09-795-271-76 | Sequence 76, Appl |
| 25 | 1295 | 80.6 | 357 | 10 | US-09-907-218-48 | Sequence 48, Appl |
| 26 | 1295 | 80.6 | 357 | 10 | US-09-912-976-58 | Sequence 58, Appl |
| 27 | 1295 | 80.6 | 357 | 10 | US-09-912-976-65 | Sequence 65, Appl |
| 28 | 1295 | 80.6 | 357 | 10 | US-09-965-422-52 | Sequence 52, Appl |
| 29 | 1295 | 80.6 | 357 | 14 | US-10-032-189-112 | Sequence 112, App |
| 30 | 1295 | 80.6 | 357 | 14 | US-10-005-041A-12 | Sequence 12, Appl |
| 31 | 1295 | 80.6 | 357 | 14 | US-10-005-041A-47 | Sequence 47, Appl |
| 32 | 1295 | 80.6 | 357 | 14 | US-10-005-041A-111 | Sequence 111, App |
| 33 | 1259 | 78.3 | 313 | 10 | US-09-779-679-62 | Sequence 62, Appl |
| 34 | 1259 | 78.3 | 313 | 10 | US-09-779-679-73 | Sequence 73, Appl |
| 35 | 1259 | 78.3 | 313 | 10 | US-09-907-218-45 | Sequence 45, Appl |
| 36 | 1259 | 78.3 | 313 | 10 | US-09-907-218-79 | Sequence 79, Appl |
| 37 | 1259 | 78.3 | 313 | 10 | US-09-912-976-62 | Sequence 62, Appl |
| 38 | 1259 | 78.3 | 313 | 10 | US-09-965-422-44 | Sequence 44, Appl |
| 39 | 1259 | 78.3 | 313 | 14 | US-10-005-041A-50 | Sequence 50, Appl |
| 40 | 1259 | 78.3 | 313 | 14 | US-10-005-041A-108 | Sequence 108, App |
| 41 | 1247 | 77.6 | 313 | 10 | US-09-779-679-55 | Sequence 55, Appl |
| 42 | 1139 | 70.9 | 280 | 10 | US-09-800-321A-38 | Sequence 38, Appl |
| 43 | 1130 | 70.3 | 313 | 11 | US-09-981-566A-70 | Sequence 70, Appl |
| 44 | 1039.5 | 64.7 | 315 | 14 | US-10-023-597-38 | Sequence 38, Appl |
| 45 | 1039.5 | 64.7 | 315 | 14 | US-10-023-597-40 | Sequence 40, Appl |

ALIGNMENTS

RESULT 1

US-09-800-321A-4
; Sequence 4, Application US/09800321A
; Publication No. US20030068671A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Burgess, Catherine E
; APPLICANT: Mishra, Vishnu
; APPLICANT: Li, Li
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Majumder, Kumud
; APPLICANT: Kimberley A
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030068671A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-703 US
; CURRENT APPLICATION NUMBER: US/09/800,321A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,606
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/221,942
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/260,285
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/220,263
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/257,600
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/187,295
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,854
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 60/187,249
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,247
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,250

PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,253
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,248
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,296
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,563
PRIOR FILING DATE: 2000-03-07
NUMBER OF SEQ ID NOS: 78
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 313
TYPE: PRT
ORGANISM: Homo sapiens
US-09-800-321A-4

Query Match 100.0%; Score 1607; DB 10; Length 313;
Best Local Similarity 100.0%; Pred. No. 3.8e-144;
Matches 313; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 PFLTNLSLLDLCYTTCTVPMVLNLCIRKVSIRGCVQAQLFIFALGATEYLLAVMSF 120
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DB 181 VPALKLSCVETTANEAEFLVSEFLPLIPLTLILISYAFIVRAVLRIQSAGRQKAFGT 240
QY 241 CGSHLIVVSLFSTAVSVYLOPPSSKDDQGMVSLFYGIIAPMLNPLIYTLRNKEVKEG 300
DB 241 CGSHLIVVSLFSTAVSVYLOPPSSKDDQGMVSLFYGIIAPMLNPLIYTLRNKEVKEG 300
QY 301 FKRLVARVFLIKK 313
DB 301 FKRLVARVFLIKK 313

RESULT 2
US-09-755-017-2
Sequence 2, Application US/09755017
Patent No. US20010034438A1
GENERAL INFORMATION:
APPLICANT: Walke, D. Wade
APPLICANT: Wilganowski, Nathaniel
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Friedrich, Glenn
APPLICANT: Abuin, Alejandro
APPLICANT: Zambrowicz, Brian
APPLICANT: Sands, Arthur T.
TITLE OF INVENTION: No. US20010034438A1 Human Membrane Proteins and
TITLE OF INVENTION: Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0115-USA
CURRENT APPLICATION NUMBER: US/09/755,017
CURRENT FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/175,764
PRIOR FILING DATE: 2000-01-12
NUMBER OF SEQ ID NOS: 3
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 313
TYPE: PRT
ORGANISM: Homo Sapien
US-09-755-017-2

Query Match 99.1%; Score 1593; DB 9; Length 313;
Best Local Similarity 99.7%; Pred. No. 8.1e-143;
Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNVNDIIQEFILGFSRDRPMLVPLVFLISYTVTFGNLTILVSRDLTKLHTPMY 60
DB 1 MNVNDIIQEFILGFSRDRPMLVPLVFLISYTVTFGNLTILVSRDLTKLHTPMY 60
QY 61 PFLTNLSLLDLCYTTCTVPMVLNLCIRKVSIRGCVQAQLFIFALGATEYLLAVMSF 120
DB 61 PFLTNLSLLDLCYTTCTVPMVLNLCIRKVSIRGCVQAQLFIFALGATEYLLAVMSF 120
QY 121 DMFVAICRPLHYSVIMHQRCLQLAAASWVTGFSNSVMSLTTLTQLPLCDPVVIDHFLCE 180
DB 121 DMFVAICRPLHYSVIMHQRCLQLAAASWVTGFSNSVMSLTTLTQLPLCDPVVIDHFLCE 180
QY 181 VPALKLSCVETTANEAEFLVSEFLPLIPLTLILISYAFIVRAVLRIQSAGRQKAFGT 240
DB 181 VPALKLSCVETTANEAEFLVSEFLPLIPLTLILISYAFIVRAVLRIQSAGRQKAFGT 240
QY 241 CGSHLIVVSLFSTAVSVYLOPPSSKDDQGMVSLFYGIIAPMLNPLIYTLRNKEVKEG 300
DB 241 CGSHLIVVSLFSTAVSVYLOPPSSKDDQGMVSLFYGIIAPMLNPLIYTLRNKEVKEG 300
QY 301 FKRLVARVFLIKK 313
DB 301 FKRLVARVFLIKK 313

RESULT 3
US-09-800-321A-2
Sequence 2, Application US/09800321A
Publication No. US20030068671A1
GENERAL INFORMATION:
APPLICANT: Padigaru, Muralidhara
APPLICANT: Burgess, Catherine E
APPLICANT: Mishra, Vishnu
APPLICANT: Li, Li
APPLICANT: Baumgartner, Jason C
APPLICANT: Majumder, Kumud
APPLICANT: Spytek, Kimberly A
APPLICANT: Tchernev, Velizar T
TITLE OF INVENTION: No. US20030068671A1 Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-703 US
CURRENT APPLICATION NUMBER: US/09/800,321A
CURRENT FILING DATE: 2001-03-05
PRIOR APPLICATION NUMBER: 60/186,606
PRIOR FILING DATE: 2000-03-03
PRIOR APPLICATION NUMBER: 60/221,942
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: 60/260,285
PRIOR FILING DATE: 2001-01-08
PRIOR APPLICATION NUMBER: 60/220,263
PRIOR FILING DATE: 2000-07-24
PRIOR APPLICATION NUMBER: 60/257,600
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/187,295
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/219,854
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: 60/187,249
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,247
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,250
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,253
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,248
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,296
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,563

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; PRIOR FILING DATE: 2000-03-07
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-321A-2

Query Match          99.1%; Score 1593; DB 10; Length 313;
Best Local Similarity 99.7%; Pred. No. 8.1e-143;
Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYVTTFIGNLTIIILVSRDLTKLHTPMY 60
Db 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYVTTFIGNLTIIILVSRDLTKLHTPMY 60

Qy 61 FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGCVQAQLFIFLAGATEYLLAVMSF 120
Db 61 FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGCVQAQLFIFLAGATEYLLAVMSF 120

Qy 121 DWFVAICRPHYSVIMHQRCLQAAAAAASWVTGFSNVLSLTTLQLPLCDPYVIDHFLCE 180
Db 121 DWFVAICRPHYSVIMHQRCLQAAAAAASWVTGFSNVLSLTTLQLPLCDPYVIDHFLCE 180

Qy 181 VPALLKLSCVETTANAEALFVSELPHLIPLTLLISYAFIVRAVLRIOAEGROKAFGT 240
Db 181 VPALLKLSCVETTANAEALFVSELPHLIPLTLLISYAFIVRAVLRIOAEGROKAFGT 240

Qy 241 CGSHLIWVSIFYSTAVSVYLPQPSKSKDQKMWVSLFYGIAPMLNPLIYTLRNKEVKEG 300
Db 241 CGSHLIWVSIFYSTAVSVYLPQPSKSKDQKMWVSLFYGIAPMLNPLIYTLRNKEVKEG 300

Qy 301 FKRLVARVFLIKK 313
Db 301 FKRLVARVFLIKK 313

RESULT 4
US-09-800-321A-34
; Sequence 34, Application US/09800321A
; Publication No. US20030068671A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Burgess, Catherine E
; APPLICANT: Mishra, Vishnu
; APPLICANT: Li, Li
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Majumder, Kumud
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030068671A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-703 US
; CURRENT APPLICATION NUMBER: US/09/800,321A
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,606
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/221,942
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/260,285
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/220,263
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/257,600
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/187,295
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,854
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 60/187,249
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,247
; PRIOR FILING DATE: 2000-03-06
```

```
; PRIOR APPLICATION NUMBER: 60/187,250
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,253
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,248
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,296
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,563
; PRIOR FILING DATE: 2000-03-07
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-321A-34

Query Match          99.1%; Score 1593; DB 10; Length 313;
Best Local Similarity 99.7%; Pred. No. 8.1e-143;
Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYVTTFIGNLTIIILVSRDLTKLHTPMY 60
Db 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYVTTFIGNLTIIILVSRDLTKLHTPMY 60

Qy 61 FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGCVQAQLFIFLAGATEYLLAVMSF 120
Db 61 FFLTNLSLLDLCYTTCTVPQMLVNLCSIRKVISYRGCVQAQLFIFLAGATEYLLAVMSF 120

Qy 121 DWFVAICRPHYSVIMHQRCLQAAAAAASWVTGFSNVLSLTTLQLPLCDPYVIDHFLCE 180
Db 121 DWFVAICRPHYSVIMHQRCLQAAAAAASWVTGFSNVLSLTTLQLPLCDPYVIDHFLCE 180

Qy 181 VPALLKLSCVETTANAEALFVSELPHLIPLTLLISYAFIVRAVLRIOAEGROKAFGT 240
Db 181 VPALLKLSCVETTANAEALFVSELPHLIPLTLLISYAFIVRAVLRIOAEGROKAFGT 240

Qy 241 CGSHLIWVSIFYSTAVSVYLPQPSKSKDQKMWVSLFYGIAPMLNPLIYTLRNKEVKEG 300
Db 241 CGSHLIWVSIFYSTAVSVYLPQPSKSKDQKMWVSLFYGIAPMLNPLIYTLRNKEVKEG 300

Qy 301 FKRLVARVFLIKK 313
Db 301 FKRLVARVFLIKK 313

RESULT 5
US-09-795-271-74
; Sequence 74, Application US/09795271
; Publication No. US20030165829A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Majumder, Kumud
; APPLICANT: Burgess, Catherine E
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Mishra, Vishnu
; APPLICANT: Casman, Stacie
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-694
; CURRENT APPLICATION NUMBER: US/09/795,271
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,674
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,535
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,585
; PRIOR FILING DATE: 2000-03-03
```

; PRIOR APPLICATION NUMBER: 60/186,604
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/186,584
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/186,717
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/186,716
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/186,719
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/186,827
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: 60/218,323
 ; PRIOR FILING DATE: 2000-07-14
 ; PRIOR APPLICATION NUMBER: 60/218,435
 ; PRIOR FILING DATE: 2000-07-14
 ; PRIOR APPLICATION NUMBER: 60/220,517
 ; PRIOR FILING DATE: 2000-07-24
 ; PRIOR APPLICATION NUMBER: 60/223,897
 ; PRIOR FILING DATE: 2000-08-09
 ; PRIOR APPLICATION NUMBER: 60/260,020
 ; PRIOR FILING DATE: 2001-01-05
 ; PRIOR APPLICATION NUMBER: 60/264,849
 ; PRIOR FILING DATE: 2001-01-29
 ; PRIOR APPLICATION NUMBER: 60/186,715
 ; PRIOR FILING DATE: 2000-03-03
 ; NUMBER OF SEQ ID NOS: 83
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 74
 ; LENGTH: 313
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-795-271-74

Query Match 99.1%; Score 1593; DB 10; Length 313;
 Best Local Similarity 99.7%; Pred. No. 8.1e-143;
 Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MNWVDSIIQEFILGFSDRPWLEPPLLVFLISYVTTFGNLTILVSRDLTKLHTPMY 60
 Db 1 MNWVDSIIQEFILGFSDRPWLEPPLLVFLISYVTTFGNLTILVSRDLTKLHTPMY 60
 QY 61 FFLTNLSLDDLCYTTCTVFPQMLVNLCSIRKVISYRCVAQLFIFLAGATEYLLAVMSF 120
 Db 61 FFLTNLSLDDLCYTTCTVFPQMLVNLCSIRKVISYRCVAQLFIFLAGATEYLLAVMSF 120
 QY 121 DFWAICRPLHYSVIMHQRCLQLAAASWVTGFSNSWMLSTLTQLPLCDPVVIDHFLCE 180
 Db 121 DFWAICRPLHYSVIMHQRCLQLAAASWVTGFSNSWMLSTLTQLPLCDPVVIDHFLCE 180
 QY 181 VPALLKLSCVETTANEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGT 240
 Db 181 VPALLKLSCVETTANEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGT 240
 QY 241 CSHLLIWSLFSYSTAVSVYLOPPSPSSKDGKQKMSVLFYGIAPMLNPLIYTLRNKEVKEG 300
 Db 241 CSHLLIWSLFSYSTAVSVYLOPPSPSSKDGKQKMSVLFYGIAPMLNPLIYTLRNKEVKEG 300
 QY 301 FKRLVARVFLIKK 313
 Db 301 FKRLVARVFLIKK 313

RESULT 6
 US-10-005-041A-51
 ; Sequence 51, Application US/10005041A
 ; Publication No. US20030232331A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Casman, Stacie J
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Burgess, Catherine E
 ; APPLICANT: Shimkets, Richard A
 ; APPLICANT: Spytek, Kimberly A

; APPLICANT: Gilbert, Jennifer A
 ; APPLICANT: Mayotte, Jane E
 ; APPLICANT: Baumgartner, Jason C
 ; APPLICANT: Mishra, Vishnu
 ; APPLICANT: Vernet, Corine AM
 ; APPLICANT: Dickinson, Kevin S
 ; APPLICANT: Ballinger, Robert A
 ; APPLICANT: Wolenc, Adam R
 ; APPLICANT: Edinger, Shlomit R
 ; APPLICANT: MacDougall, John R
 ; APPLICANT: Smithson, Glennda
 ; APPLICANT: Ellerman, Karen
 ; APPLICANT: Stone, David J
 ; APPLICANT: Gunther, Erik
 ; APPLICANT: Gerlach, Valerie
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 ; FILE REFERENCE: 21402-215
 ; CURRENT APPLICATION NUMBER: US/10/005,041A
 ; CURRENT FILING DATE: 2001-12-04
 ; PRIOR APPLICATION NUMBER: 60/251,459
 ; PRIOR FILING DATE: 2000-12-05
 ; PRIOR APPLICATION NUMBER: 60/259,007
 ; PRIOR FILING DATE: 2000-12-29
 ; NUMBER OF SEQ ID NOS: 205
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 51
 ; LENGTH: 313
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-005-041A-51

Query Match 99.1%; Score 1593; DB 14; Length 313;
 Best Local Similarity 99.7%; Pred. No. 8.1e-143;
 Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MNWVDSIIQEFILGFSDRPWLEPPLLVFLISYVTTFGNLTILVSRDLTKLHTPMY 60
 Db 1 MNWVDSIIQEFILGFSDRPWLEPPLLVFLISYVTTFGNLTILVSRDLTKLHTPMY 60
 QY 61 FFLTNLSLDDLCYTTCTVFPQMLVNLCSIRKVISYRCVAQLFIFLAGATEYLLAVMSF 120
 Db 61 FFLTNLSLDDLCYTTCTVFPQMLVNLCSIRKVISYRCVAQLFIFLAGATEYLLAVMSF 120
 QY 121 DFWAICRPLHYSVIMHQRCLQLAAASWVTGFSNSWMLSTLTQLPLCDPVVIDHFLCE 180
 Db 121 DFWAICRPLHYSVIMHQRCLQLAAASWVTGFSNSWMLSTLTQLPLCDPVVIDHFLCE 180
 QY 181 VPALLKLSCVETTANEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGT 240
 Db 181 VPALLKLSCVETTANEAEFLVSELPHLPLTLILISYAFIVRAVLRIQSAEGRQKAFGT 240
 QY 241 CSHLLIWSLFSYSTAVSVYLOPPSPSSKDGKQKMSVLFYGIAPMLNPLIYTLRNKEVKEG 300
 Db 241 CSHLLIWSLFSYSTAVSVYLOPPSPSSKDGKQKMSVLFYGIAPMLNPLIYTLRNKEVKEG 300
 QY 301 FKRLVARVFLIKK 313
 Db 301 FKRLVARVFLIKK 313

RESULT 7
 US-10-343-650A-302
 ; Sequence 302, Application US/10343650A
 ; Publication No. US20040067499A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HAGA, TATSUYA
 ; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
 ; FILE REFERENCE: 31671-186347
 ; CURRENT APPLICATION NUMBER: US/10/343,650A
 ; CURRENT FILING DATE: 2003-07-21
 ; PRIOR APPLICATION NUMBER: JP 2000/237818
 ; PRIOR FILING DATE: 2000-08-04
 ; PRIOR APPLICATION NUMBER: JP 2001/34434

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; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 302
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-343-650A-302

Query Match      99.1%; Score 1593; DB 15; Length 313;
Best Local Similarity 99.7%; Pred. No. 8.1e-143;
Matches 312; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYTTFIFGNLTIIILVSRDLTKLHTPMY 60
DB 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYTTFIFGNLTIIILVSRDLTKLHTPMY 60
QY 61 FFLTNLSLLDLCTTCTVPQMLVNLCSIRKVISYRGCVQALFIFLALGATEYLLAVMSF 120
DB 61 FFLTNLSLLDLCTTCTVPQMLVNLCSIRKVISYRGCVQALFIFLALGATEYLLAVMSF 120
QY 121 DWFVAICRPLHYSHVIMHQRICLOLAAASWVTGFSNSVWMLSTLTILQLPLCDPYVIDHFLCE 180
DB 121 DWFVAICRPLHYSHVIMHQRICLOLAAASWVTGFSNSVWMLSTLTILQLPLCDPYVIDHFLCE 180
QY 181 VPALLKSLCVETTANAEFLVSELPHLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
DB 181 VPALLKSLCVETTANAEFLVSELPHLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
QY 241 CGSHLIWVSLFYSTAVSVVYLQPPSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
DB 241 CGSHLIWVSLFYSTAVSVVYLQPPSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
QY 301 FKRLVARVFLIKK 313
DB 301 FKRLVARVFLIKK 313
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RESULT 8

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US-09-800-321A-6
; Sequence 6, Application US/09800321A
; Publication No. US20030068671A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Burgess, Catherine E
; APPLICANT: Mishra, Vishnu
; APPLICANT: Li, Li
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Majumder, Kumud
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030068671A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-703 US
; CURRENT APPLICATION NUMBER: US/09/800,321A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,606
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/221,942
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/260,285
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/220,263
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/257,600
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/187,295
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,954
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 60/187,249
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,247
; PRIOR FILING DATE: 2000-03-06
```

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; PRIOR APPLICATION NUMBER: 60/187,250
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,253
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,248
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,296
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,563
; PRIOR FILING DATE: 2000-03-07
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-321A-6
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Query Match      98.7%; Score 1586; DB 10; Length 313;
Best Local Similarity 99.0%; Pred. No. 3.8e-142;
Matches 310; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYTTFIFGNLTIIILVSRDLTKLHTPMY 60
DB 1 MNWVDSIIQEFILLGFSRDPWLEFFLLVVFLLSYTTFIFGNLTIIILVSRDLTKLHTPMY 60
QY 61 FFLTNLSLLDLCTTCTVPQMLVNLCSIRKVISYRGCVQALFIFLALGATEYLLAVMSF 120
DB 61 FFLTNLSLLDLCTTCTVPQMLVNLCSIRKVISYRGCVQALFIFLALGATEYLLAVMSF 120
QY 121 DWFVAICRPLHYSHVIMHQRICLOLAAASWVTGFSNSVWMLSTLTILQLPLCDPYVIDHFLCE 180
DB 121 DWFVAICRPLHYSHVIMHQRICLOLAAASWVTGFSNSVWMLSTLTILQLPLCDPYVIDHFLCE 180
QY 181 VPALLKSLCVETTANAEFLVSELPHLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
DB 181 VPALLKSLCVETTANAEFLVSELPHLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
QY 241 CGSHLIWVSLFYSTAVSVVYLQPPSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
DB 241 CGSHLIWVSLFYSTAVSVVYLQPPSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
QY 301 FKRLVARVFLIKK 313
DB 301 FKRLVARVFLIKK 313
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RESULT 9

```
US-09-800-321A-35
; Sequence 35, Application US/09800321A
; Publication No. US20030068671A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Burgess, Catherine E
; APPLICANT: Mishra, Vishnu
; APPLICANT: Li, Li
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Majumder, Kumud
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030068671A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-703 US
; CURRENT APPLICATION NUMBER: US/09/800,321A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,606
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/221,942
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/260,285
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/220,263
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/257,600
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; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/187,295
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,854
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 60/187,249
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,247
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,250
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,253
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,248
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,296
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/187,563
; PRIOR FILING DATE: 2000-03-07
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-321A-35

Query Match      80.8%; Score 1299; DB 10; Length 357;
Best Local Similarity 81.6%; Pred. No. 7.8e-115;
Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;

QY      1 MNVNDLSIOERILLGFSDRPWLPLVVLISYTVTFGNLTILVSRLOTKLHTPMY 60
Db      1 MNVNVKSPQEFILLVFSQDPWLEIPPFVWFLFSYLTIFGNLTILVSHVDFKLHTPMY 60

QY      61 PFLTNSLDDLCTYCTCTVQPMVLNLCIRKVISYRGCVAAQLFIFLALGATEYLLAVMSF 120
Db      61 PFLNSLDDLCTYCTSTVQPMVLNLCIRKVISYRGCVAAQLFIFLALGATEYLLAVMSF 120

QY      121 DMFVAICRPLHYSVIMHQRCLQLAAASWVTGFSNVLSTLTQLPLCDPVVIDHFLCE 180
Db      121 DRFVAICRPLHYSIIIMHQRCLQLAAASWISGFSNVLSTLTQLPLCGHKEVDHFFCE 180

QY      181 VPALLKLSCVETANEAEELFVSEIPLIPLTILISYAFIVRAVLRIOASGRKAFGT 240
Db      181 VPALLKLSCVDTTANEAEELFFISVLPLIPVTLILISYAFIVQAVLRIOASGRKAFGT 240

QY      241 CGSHLIVVSLFYSTAVSVYLOPPSPSSKDGKMWSLFYGGIIAPMLNPLIYTLRNKEVKEG 300
Db      241 CGSHLIVVSLFYGTALSMYLOPPSPSSKDGKMWSLFCGGIIAPMLNPLIYTLRNKEVKEA 300

QY      301 FKRLVARVPL 310
Db      301 FKRLVAKSL 310

RESULT 10
US-09-795-271-75
; Sequence 75, Application US/09795271
; Publication No. US20030165829A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Majumder, Kumud
; APPLICANT: Burgess, Catherine E
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Mishra, Vishnu
; APPLICANT: Casman, Stacie
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zernusen, Bryan
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
```

```
; FILE REFERENCE: 15966-694
; CURRENT APPLICATION NUMBER: US/09/795,271
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,674
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,535
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,585
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,604
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,584
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,717
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,716
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,719
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/186,827
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/218,323
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/218,435
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/220,517
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/223,897
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: 60/260,020
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/264,849
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: 60/186,715
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 75
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-795-271-75

Query Match      80.8%; Score 1299; DB 10; Length 357;
Best Local Similarity 81.6%; Pred. No. 7.8e-115;
Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;

QY      1 MNVNDLSIOERILLGFSDRPWLPLVVLISYTVTFGNLTILVSRLOTKLHTPMY 60
Db      1 MNVNVKSPQEFILLVFSQDPWLEIPPFVWFLFSYLTIFGNLTILVSHVDFKLHTPMY 60

QY      61 PFLTNSLDDLCTYCTCTVQPMVLNLCIRKVISYRGCVAAQLFIFLALGATEYLLAVMSF 120
Db      61 PFLNSLDDLCTYCTSTVQPMVLNLCIRKVISYRGCVAAQLFIFLALGATEYLLAVMSF 120

QY      121 DMFVAICRPLHYSVIMHQRCLQLAAASWVTGFSNVLSTLTQLPLCDPVVIDHFLCE 180
Db      121 DRFVAICRPLHYSIIIMHQRCLQLAAASWISGFSNVLSTLTQLPLCGHKEVDHFFCE 180

QY      181 VPALLKLSCVETANEAEELFVSEIPLIPLTILISYAFIVRAVLRIOASGRKAFGT 240
Db      181 VPALLKLSCVDTTANEAEELFFISVLPLIPVTLILISYAFIVQAVLRIOASGRKAFGT 240

QY      241 CGSHLIVVSLFYSTAVSVYLOPPSPSSKDGKMWSLFYGGIIAPMLNPLIYTLRNKEVKEG 300
Db      241 CGSHLIVVSLFYGTALSMYLOPPSPSSKDGKMWSLFCGGIIAPMLNPLIYTLRNKEVKEA 300

QY      301 FKRLVARVPL 310
Db      301 FKRLVAKSL 310

RESULT 11
```

US-09-907-218-46
 ; Sequence 46, Application US/09907218
 ; Publication No. US20030166845A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Mishra, Vishnu
 ; APPLICANT: Patturajan, Meera
 ; APPLICANT: Tailon, Bruce
 ; APPLICANT: Casman, Stacie J
 ; APPLICANT: Wolenc, Adam Ryan
 ; APPLICANT: Li, Li
 ; APPLICANT: Kekuda, Ramesh
 ; APPLICANT: Spvtek, Kimberly Ann
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 ; FILE REFERENCE: 21402-061
 ; CURRENT APPLICATION NUMBER: US/09/907,218
 ; CURRENT FILING DATE: 2002-04-04
 ; PRIOR APPLICATION NUMBER: 60/218,746
 ; PRIOR FILING DATE: 2000-07-17
 ; PRIOR APPLICATION NUMBER: 60/260,977
 ; PRIOR FILING DATE: 2001-01-11
 ; PRIOR APPLICATION NUMBER: 60/263,801
 ; PRIOR FILING DATE: 2001-01-24
 ; PRIOR APPLICATION NUMBER: 60/268,226
 ; PRIOR FILING DATE: 2001-02-12
 ; PRIOR APPLICATION NUMBER: 60/271,622
 ; PRIOR FILING DATE: 2001-02-26
 ; NUMBER OF SEQ ID NOS: 89
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 46
 ; LENGTH: 357
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-907-218-46

Query Match 80.8%; Score 1299; DB 10; Length 357;
 Best Local Similarity 81.6%; Pred. No. 7.8e-115;
 Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;
 QY 1 MNWVDSIIQEFILLGSDRPWLEFFLLVVLISYTVTFGNLTIIILVSRDLTKLHTPMY 60
 Db 1 MNWVKSVPQEFILLVFSQDQWLEIPFVWMLFSLYITIFGNLTIIILVSHVDFKLHTPMY 60
 QY 61 FFLTNLSLLDLCYTTCTVPQMLNLCIRKVISYRGCAQLFIFLAGATEYLLAVMSF 120
 Db 61 FFLSNLSLLDLCYTTSTVPQMLNLCIRKVISYGGCAQLFIFLAGSTECCLLAVMCF 120
 QY 121 DFWVAICRPLHYSIVMHQRLCQLAAASWVTGFSNSVLMSTLTQLPLCDPYVIDHFLCE 180
 Db 121 DRFVAICRPLHYSIVMHQRLCFQLAAASWISGFSNSVLQSTWTLKMPLCGHKEVDHFFCE 180
 QY 181 VPALLKLSCVETTANAELEFLVSELFLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
 Db 181 VPALLKLSCVDTTANAELEFFISVLFLLIPVTLILISYAFIVQAVLRIQSAEGRKAFGT 240
 QY 241 CGSHLIVSVLFYSTAVSVLYQPPSPSKOQKMWSLFYGIHAPMLNPLIYTLRNKEVKEG 300
 Db 241 CGSHLIVSVLFYGTAVSMYLYQPPSPSKDRGKMWSLFCGIIAPMLNPLIYTLRNKEVKEA 300
 QY 301 FKRLVARVFL 310
 Db 301 FKRLVAKSL 310

RESULT 12
 US-09-912-976-57
 ; Sequence 57, Application US/09912976
 ; Publication No. US20030212255A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Mezes, Peter
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Casman, Stacie

; APPLICANT: Grosse, William M
 ; APPLICANT: Alsobrook II, John P
 ; APPLICANT: Lepley, Denise M
 ; APPLICANT: Gerlach, Valerie L
 ; APPLICANT: MacDougall, John R
 ; APPLICANT: Smithson, Glennda
 ; APPLICANT: Mishra, Vishnu
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 ; FILE REFERENCE: 21402-070
 ; CURRENT APPLICATION NUMBER: US/09/912,976
 ; CURRENT FILING DATE: 2001-07-05
 ; PRIOR APPLICATION NUMBER: 60/221,336
 ; PRIOR FILING DATE: 2000-07-26
 ; PRIOR APPLICATION NUMBER: 60/238,333
 ; PRIOR FILING DATE: 2000-10-05
 ; PRIOR APPLICATION NUMBER: 60/260,675
 ; PRIOR FILING DATE: 2001-01-10
 ; PRIOR APPLICATION NUMBER: 60/271,025
 ; PRIOR FILING DATE: 2001-02-22
 ; PRIOR APPLICATION NUMBER: 60/278,164
 ; PRIOR FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: 60/280,876
 ; PRIOR FILING DATE: 2001-04-02
 ; NUMBER OF SEQ ID NOS: 99
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 57
 ; LENGTH: 357
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-912-976-57

Query Match 80.8%; Score 1299; DB 10; Length 357;
 Best Local Similarity 81.6%; Pred. No. 7.8e-115;
 Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;
 QY 1 MNWVDSIIQEFILLGSDRPWLEFFLLVVLISYTVTFGNLTIIILVSRDLTKLHTPMY 60
 Db 1 MNWVKSVPQEFILLVFSQDQWLEIPFVWMLFSLYITIFGNLTIIILVSHVDFKLHTPMY 60
 QY 61 FFLTNLSLLDLCYTTCTVPQMLNLCIRKVISYRGCAQLFIFLAGATEYLLAVMSF 120
 Db 61 FFLSNLSLLDLCYTTSTVPQMLNLCIRKVISYGGCAQLFIFLAGSTECCLLAVMCF 120
 QY 121 DFWVAICRPLHYSIVMHQRLCQLAAASWVTGFSNSVLMSTLTQLPLCDPYVIDHFLCE 180
 Db 121 DRFVAICRPLHYSIVMHQRLCFQLAAASWISGFSNSVLQSTWTLKMPLCGHKEVDHFFCE 180
 QY 181 VPALLKLSCVETTANAELEFLVSELFLIPLTILISYAFIVRAVLRIQSAEGRQKAFGT 240
 Db 181 VPALLKLSCVDTTANAELEFFISVLFLLIPVTLILISYAFIVQAVLRIQSAEGRKAFGT 240
 QY 241 CGSHLIVSVLFYSTAVSVLYQPPSPSKOQKMWSLFYGIHAPMLNPLIYTLRNKEVKEG 300
 Db 241 CGSHLIVSVLFYGTAVSMYLYQPPSPSKDRGKMWSLFCGIIAPMLNPLIYTLRNKEVKEA 300
 QY 301 FKRLVARVFL 310
 Db 301 FKRLVAKSL 310

RESULT 13
 US-09-912-976-63
 ; Sequence 63, Application US/09912976
 ; Publication No. US20030212255A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Mezes, Peter
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Casman, Stacie
 ; APPLICANT: Grosse, William M
 ; APPLICANT: Alsobrook II, John P
 ; APPLICANT: Lepley, Denise M
 ; APPLICANT: Gerlach, Valerie L

```
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Mishra, Vishnu
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-070
; CURRENT APPLICATION NUMBER: US/09/912,976
; CURRENT FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: 60/221,336
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/238,333
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/260,675
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/271,025
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/278,164
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/280,876
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 63
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-912-976-63

Query Match      80.8%; Score 1299; DB 10; Length 357;
Best Local Similarity 81.6%; Pred. No. 7.8e-115;
Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;

QY 1 MNWVDSIIQEFILGFSDRPMLPPLLVFLISYVTITFGNLTILVSRDTKLHTPMY 60
Db 1 MNWVKSVPQEFILLVFSQPMLPPLPFFVFLISYVTITFGNLTILVSRDTKLHTPMY 60

QY 61 FFLTNLSLDDLCYTTCTVQMLVNLCSIRKVISYRGCVQAQLFIFLALGATEYLLAVMSF 120
Db 61 FFLSNLSLDDLCYTTSTVPQMLVNLCSIRKVISYRGCVQAQLFIFLALGATEYLLAVMSF 120

QY 121 DMFVAICRPLHYSVMHQRCLQLAAASWVTGFSNWSLSTLTQLPLCDPVYIDHFLCE 180
Db 121 DMFVAICRPLHYSVMHQRCLQLAAASWVTGFSNWSLSTLTQLPLCDPVYIDHFLCE 180

QY 181 VPALKKLSCVETTANAEALFVSELPFLIPVLISYAFIVRAVLRIQSAEGRKAFGT 240
Db 181 VPALKKLSCVDTTANAEALFFSVLPFLIPVLISYAFIVQAVLRIQSAEGRKAFGT 240

QY 241 CGSHLIVVSLFYSTAVSVYVLPQSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
Db 241 CGSHLIVVSLFYGTALSMYLPQSPSSKDGKMWLSFYCGIIAPMLNPLIYTLRNKEVKEA 300

QY 301 FKRLVARVFL 310
Db 301 FKRLVAKSL 310
```

RESULT 14

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US-09-965-422-50
; Sequence 50, Application US/09965422
; Publication No. US20030216545A1
; GENERAL INFORMATION:
; APPLICANT: Spytex, Kimberly A
; APPLICANT: Caeman, Stacie
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Dickson, Kevin
; APPLICANT: Vernet, Corine
; APPLICANT: Spaderna, Steven K
; APPLICANT: Shency, Suresh G
; APPLICANT: Gerlach, Valerie
; APPLICANT: Ellerman, Karen
; APPLICANT: Edinger, Shlomit
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
```

```
; APPLICANT: Li, Li
; APPLICANT: Malyankar, Urial M
; APPLICANT: Taylor, Sarah
; APPLICANT: Gunther, Erik
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030216545A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21401-132
; CURRENT APPLICATION NUMBER: US/09/965,422
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/236,286
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/236,284
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,581
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,735
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/240,736
; PRIOR FILING DATE: 2000-10-16
; PRIOR APPLICATION NUMBER: 60/260,019
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/260,338
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/262,156
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/262,498
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/263,133
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,691
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/266,109
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/271,634
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 50
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-965-422-50

Query Match      80.8%; Score 1299; DB 10; Length 357;
Best Local Similarity 81.6%; Pred. No. 7.8e-115;
Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;

QY 1 MNWVDSIIQEFILGFSDRPMLPPLLVFLISYVTITFGNLTILVSRDTKLHTPMY 60
Db 1 MNWVKSVPQEFILLVFSQPMLPPLPFFVFLISYVTITFGNLTILVSRDTKLHTPMY 60

QY 61 FFLTNLSLDDLCYTTCTVQMLVNLCSIRKVISYRGCVQAQLFIFLALGATEYLLAVMSF 120
Db 61 FFLSNLSLDDLCYTTSTVPQMLVNLCSIRKVISYRGCVQAQLFIFLALGATEYLLAVMSF 120

QY 121 DMFVAICRPLHYSVMHQRCLQLAAASWVTGFSNWSLSTLTQLPLCDPVYIDHFLCE 180
Db 121 DMFVAICRPLHYSVMHQRCLQLAAASWVTGFSNWSLSTLTQLPLCDPVYIDHFLCE 180

QY 181 VPALKKLSCVETTANAEALFVSELPFLIPVLISYAFIVRAVLRIQSAEGRKAFGT 240
Db 181 VPALKKLSCVDTTANAEALFFSVLPFLIPVLISYAFIVQAVLRIQSAEGRKAFGT 240

QY 241 CGSHLIVVSLFYSTAVSVYVLPQSPSSKDGKMWLSFYGIIAPMLNPLIYTLRNKEVKEG 300
Db 241 CGSHLIVVSLFYGTALSMYLPQSPSSKDGKMWLSFYCGIIAPMLNPLIYTLRNKEVKEA 300

QY 301 FKRLVARVFL 310
Db 301 FKRLVAKSL 310
```

RESULT 15

US-10-005-041A-48
; Sequence 48, Application US/10005041A
; Publication No. US20030232331A1
; GENERAL INFORMATION:
; APPLICANT: Casman, Stacie J
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Burgess, Catherine E
; APPLICANT: Shimkets, Richard A
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Gilbert, Jennifer A
; APPLICANT: Mayotte, Jane E
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Mishra, Vishnu
; APPLICANT: Vernet, Corine AM
; APPLICANT: Dickinson, Kevin S
; APPLICANT: Ballinger, Robert A
; APPLICANT: Wolenc, Adam R
; APPLICANT: Edinger, Shlomit R
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennnda
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David J
; APPLICANT: Gunther, Erik
; APPLICANT: Gerlach, Valerie
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-215
; CURRENT APPLICATION NUMBER: US/10/005,041A
; CURRENT FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/251,459
; PRIOR FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: 60/259,007
; PRIOR FILING DATE: 2000-12-29
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 48
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-005-041A-48

Query Match 80.8%; Score 1299; DB 14; Length 357;
Best Local Similarity 81.6%; Pred. No. 7.8e-115;
Matches 253; Conservative 24; Mismatches 33; Indels 0; Gaps 0;

| | | | |
|----|-----|---|-----|
| Qy | 1 | MNWVDSIIQEFILLGFSRDPWLEFPDLLVFLISYTVTFIGNLTIIILVSRDLTKLHTPMY | 60 |
| Db | 1 | MNWVKSVPQEFILLVFSQDPWLEIPFPVMEFLFSYILTFIGNLTIIILVSHVDFKLHTPMY | 60 |
| Qy | 61 | FFLTNLSLLDLCYTTCTVPQMLNLCIRKVISYRGCVQQLFIFLALGATEYLLAVMSF | 120 |
| Db | 61 | FFLSNLSLLDLCYTTSTVPQMLNLCIRKVISYGGCVQQLFIFLAGSTECLLAVNCF | 120 |
| Qy | 121 | DWFVAICRPLHYSVIMHORLCLQAAASWVTGFSNSVMLSTLTQLPLCDPYVIDHFLCE | 180 |
| Db | 121 | DRFVAICRPLHYSIIMHORLCLQAAASWISGFSNSVLQSTWTLKMPLCGHKEVDHFFCE | 180 |
| Qy | 181 | VPALLKLSCVETTANAEELFVSELFLHLPILTLILSYAFIVRAVLRIQSAEGKQAFGT | 240 |
| Db | 181 | VPALLKLSCVDTTANAEELFFISVFLIIPVTLILSYAFIVQAVLRIQSAEGRRKAFGT | 240 |
| Qy | 241 | CGSHLIIVVSLFYSTAVSVYLPQPPSPSKDQGMVSLFYGIAPMLNPLIYTLRNKEYKEG | 300 |
| Db | 241 | CGSHLIIVVSLFYSTAVSVYLPQPPSPSKDQGMVSLFYGIAPMLNPLIYTLRNKEYKEA | 300 |
| Qy | 301 | FXRLVARVFL 310 | |
| Db | 301 | FXRLVAKSL 310 | |

Search completed: November 23, 2004, 18:34:45
Job time : 142 secs

